

Abstract of the Disclosure:

To maintain a favorable combustion state by controlling with high response the quantity and quality of mixture to be supplied to cylinders, and thereby to accelerate reduction in the emission level of harmful exhaust containing air pollutants, and reduction in fuel consumption. A mixture supply device used in an internal-combustion engine for automobiles having multi-cylinder combustors is constructed into the type where motor-driven fuel spraying mechanisms corresponding to respective cylinders, a motor-driven exhaust recirculating mechanism for collecting part of the exhaust generated by combustion of a mixture in the above-mentioned internal-combustion engine and then remixing the above-generated exhaust into the mixture, and an integrated controller for transmitting control signals simultaneously to the above-mentioned three types of mechanisms are built into a motor-driven multiple-throttle mechanism, this motor-driven multiple-throttle mechanism being able to control a plurality of inlet passageways of air flow with one motor, being formed with restrictions of different sizes and shapes in respective inlet passageways, even at the same rotational angle, and being equipped with an air flow control valve capable of accelerating air flow.

[Selected Figure] Fig. 3